

(Reaffirmed 2016)

IS 6809 : 1990

भारतीय मानक

(Reaffirmed 2006)

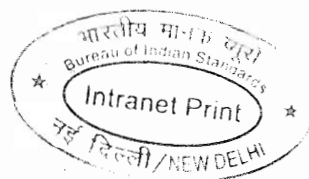
पुनर्स्थापन उपस्कर — स्थिर ऊँचाई वाला चलने के लिये
प्रयुक्त फ्रेम — विशिष्ट

(पहला पुनरीक्षण)

Indian Standard

REHABILITATION EQUIPMENT — FIXED
HEIGHT WALKING FRAME — SPECIFICATION
(*First Revision*)

UDC 615.477.27



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BUREAU OF INDIAN STANDARDS
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NEW DELHI 110002

November 1990

Price Group 1

MAX. RETAIL PRICE
OF ALL TAXES
₹90

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Artificial Limbs, Rehabilitation Appliances and Equipment for Disabled Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1972. In this revision, the main changes are in the requirement of material for steel tubes and some of the dimensions. A folding type of walking frame has also been included.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

REHABILITATION EQUIPMENT — FIXED HEIGHT WALKING FRAME — SPECIFICATION

(First Revision)

1 SCOPE

1.1 This standard specifies the dimensional and other requirements for fixed height walking frame, rigid as well as folding type.

2 REFERENCES

2.1 The following Indian Standards are necessary adjuncts to this standard.

IS No.	Title
1068 : 1985	Specification for electroplated coatings of nickel plus chromium and copper plus nickel plus chromium on iron and steel (second revision)
2039 : 1981	Specification for steel tubes for bicycles and allied purposes (first revision)
5150 : 1969	Specification for rubber tips for crutches and walking sticks

3 SHAPE AND DIMENSIONS

3.1 The shape and dimensions of fixed height walking frame shall be as shown in Fig. 1.

4 MATERIAL

4.1 Framework

Framework of fixed height walking frame shall be made of electric resistance butt welded (ERW) steel tubes or aluminium alloy seamless tubes having an outer diameter of 25.0 mm with a wall thickness of 1.2 mm for ERW steel tubes and 2.0 mm for aluminium alloy seamless tubes. The ERW steel tubes shall conform to IS 2039 : 1981.

4.2 Hand Grip

Hand grips shall be made of suitable plastic material or nylon.

4.3 Ferrules

Ferrules shall be made of polyurethane conforming to IS 5150 : 1969.

4.4 Washers, Screws and Rivets

The washers, screws and rivets shall be made of steel or copper.

5 CONSTRUCTION

5.1 The fixed height walking frame may be of non-folding or folding type.

5.2 Each tube shall be made of one piece. All the framework and joints shall be sound and cleanly welded without any sharp edges. All the four legs shall be in contact with plane surface.

5.3 The hand grip shall be secured to the position by push fit after applying the epoxy glue to ensure firm fitting.

5.4 The ferrules shall be securely fixed to the legs.

5.5 Folding frame shall have secure joints with smooth movements.

5.6 Construction of the folding frame shall be such that it does not wobble or rattle.

6 WORKMANSHIP AND FINISH

6.1 All steel parts shall be either painted or electroplated as required by the purchaser.

6.2 Prior to painting, all parts shall be degreased, rust proofed and finished by spraying stoving enamel or air drying enamel of desired shade. The finished paint shall be hard and shall not readily chip or flake.

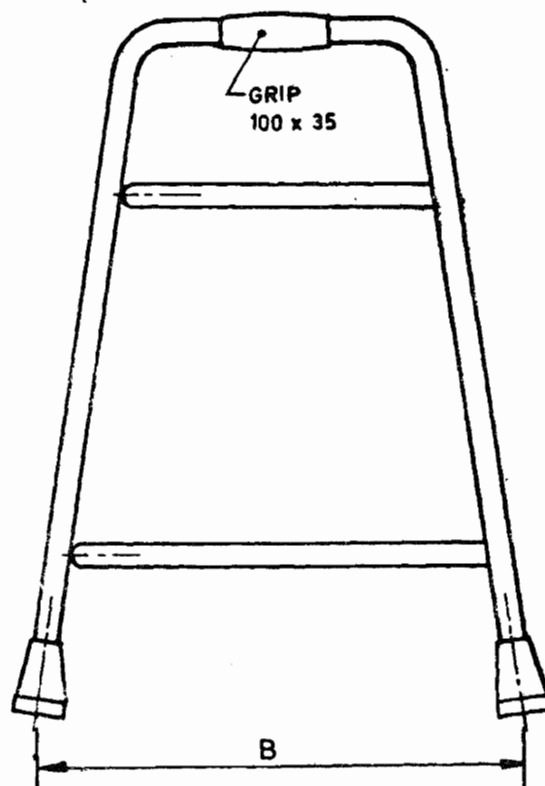
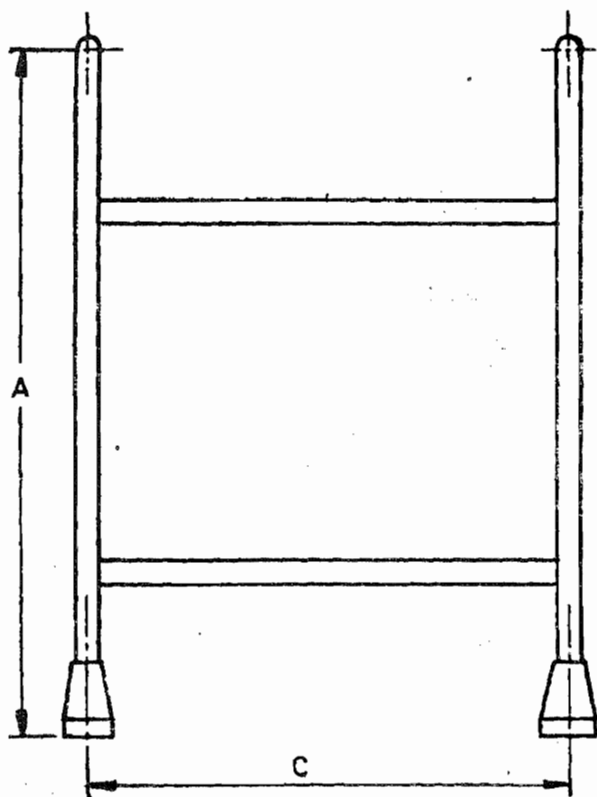
6.3 Electroplating shall be of chrome over nickel in accordance with service grade 2 of IS 1968 : 1985.

6.4 Aluminium framework shall be anodized.

7 TESTS

7.1 Stability Test

When the frame is placed on an inclined plane of 20° in any direction, the frame shall not become unstable.



	A	B	C
	± 75	± 30	± 30
LARGE	900	500	525
MEDIUM	700	500	500
SMALL	500	400	400

All dimensions in millimetres

FIG. 1 FIXED HEIGHT WALKING FRAME

7.2 Load Test

Place the walking frame on a plane surface, apply gradually a load of 80 kg at each of the hand grips simultaneously. The welded joints shall not be damaged.

8 MARKING

8.1 The frame shall be marked with the following:

- Indication of the source of manufacture,

- Size of the frame,

- Batch number, and

- Date of manufacture.

9 PACKING

9.1 The packing of fixed height walking frame shall be done as agreed to between the purchaser and the supplier.

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Doc : No. MHD 10 (2156)

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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